

Claims

What is claimed is:

1. A conduit assembly for fluid transfer, comprising:
an inner conduit for transferring a first fluid;
an outer conduit disposed around said inner conduit for transferring a second fluid, and
a fluid splitter body capable of receiving a portion of said outer conduit,
wherein the first fluid passing through said inner conduit is exposed to a temperature of the second fluid and shielded from ambient environmental conditions by passing through said outer conduit.
2. The assembly according to Claim 1, further including a fluid splitter nipple sealingly engaging said inner conduit.
3. The assembly according to Claim 1, further including a connecting member attached to said outer conduit forming a saddle joint type of connection with said outer conduit.
4. The assembly according to Claim 1, wherein the first fluid has a higher temperature than the second fluid.
5. The assembly according to Claim 1, wherein said inner conduit includes a plurality of ribs for concentrically positioning said inner conduit within said outer conduit.
6. The assembly according to Claim 1, wherein said fluid splitter nipple includes a plurality of ribs for concentrically positioning said fluid splitter nipple within said fluid splitter body.

7. The assembly according to Claim 1, wherein the first fluid is transferred from a pump to a heater core of a heater system.
8. The assembly according to Claim 1, wherein the second fluid is transferred from a heater core to a heat reservoir and then back to a pump of a heater system.
9. The assembly according to Claim 1, wherein said inner conduit is made of a flexible material.
10. The assembly according to Claim 1, wherein said outer conduit is made of a rigid material.
11. A method of assembling a conduit assembly including an inner conduit, an outer conduit, a fluid splitter nipple, and a fluid splitter body, the method comprising the steps of:
 - disposing the inner conduit over the fluid splitter nipple;
 - disposing the outer conduit over the inner conduit; and
 - disposing the fluid splitter body over the fluid splitter nipple,whereby a first fluid passing through the inner conduit is exposed to a temperature of a second fluid passing through the outer conduit and shielded from ambient environmental conditions.
12. The method according to Claim 11, further comprising the step of disposing a fluid splitter body over a portion of the outer conduit to form a seal between the fluid splitter body and the outer conduit.
13. The method according to Claim 11, further comprising the step of attaching a connecting member to the outer conduit to form a saddle type of connection between the connecting member and the outer conduit.